

Subject: **ACTION:** Flight Inspection of  
Minimum Sector Altitude Warning  
(MSAW/EMSAW)

Date: May 15, 1998

From: Acting Manager, Flight Inspection  
Technical Support Branch, AVN-210

Reply to  
Attn. of:

To: Manager, International Flight Inspection  
Office, IFIO

Aviation System Standards, AVN, is actively working with Airways Facilities Operational Support, AOS, to develop Minimum Sector Altitude Warning (MSAW/EMSAW) profiles for ARTS II and III sites.

In an effort to provide flight inspection operational support consistent with current AOS requirements, the following is provided as operational guidance:

- AOS develops two profiles to be flown by flight inspection; the Approach Path Monitor Check and General Terrain Monitor Check. These site-specific profiles are provided the crew through the Flight Inspection Central Operations Office, AVN-280 (FICO). Profiles include flight maneuvers, latitudes and longitudes, alarm altitudes, inhibit zones, and Beacon Code Group Blocks for the specific site. This minimizes coordination between AVN and Air Traffic, AT, due to the flight inspection crew having all information required to check the MSAW, and eliminates the requirement for the Air Traffic Automation Specialist (AUS) on-site support during the inspection.
- The FICO will coordinate an MSAW flight inspection with the Maintenance Control Center (MCC), and AT focal point the week prior to the scheduled inspection. The flight inspection crew, when on-site, will contact AT before going to the area to be checked. AT will be asked to provide the flight inspection crew with "when" and "where" the MSAW alarm occurs.

- The flight inspection crew will annotate the results of the MSAW inspection on FAA Form 4040-5, Daily Flight Log (DFL), Remarks. Note the time, heading, runway, and the report of "Alarm" or "No Alarm". Report flight inspection results on ASR report form 8240-8 as a "Special" Maintenance Request (MR) type inspection. Document findings in the remark section describing each maneuver and each result. Place an "X" in both the ASR and SECRA blocks in field 7. The FICO logs a special request against the ASR portion only, however, the MSAW inspection actually verifies the operation of both the ASR and the SECRA. The report should reflect the entire system including the SECRA portion. MSAW checks will be tied to the ASR periodic schedule on a 540 day interval.
- Facility status will remain as per the commissioning inspection or as indicated on the ASR facility data sheet.
- No facility restriction should result from a MSAW flight inspection. AF/AT will take appropriate action based upon inspection results.
- Profile provided by AOS, and subsequent inspection results, should be filed in the appropriate flight inspection facility folder for future reference.
- The FICO will forward inspection results to the National Maintenance Coordination Center (NMCC) and AOS-620 SC. Questions on the profiles may be directed to MSAW AOS-620 Safety Critical Team at 609-485-8563 or fax 609-485-8333.

This operational guidance shall remain in effect until superceded by flight inspection policy when developed and included in FAA Order 8200.1, United States Standard Flight Inspection Manual.

John F. Lufkin

cc: AVN-210(SK)/230/280  
File: 8200-2-1  
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